



PATENT  
SU-7273

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JAMES L. MCNAUGHTON

SERIAL NO.: 10/603,132

FILED: JUNE 24, 2003

MICROBIOLOGICAL CONTROL IN THE  
PROCESSING OF POULTRY

EXAMINER:  
ARTHUR L. CORBIN

ART UNIT: 1761

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Enclosed herewith for consideration by the Examiner is a Sixth Supplemental Information Disclosure Form PTO/SB/08A and PTO/SB/08b. There are 29 U.S. patent references listed but not enclosed and 16 foreign patent documents and 62 literature references listed and enclosed.

Respectfully Submitted,

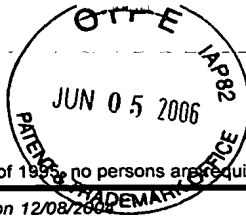
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Doc Code: **SU-7273**

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2006. OMB 0651-0032  
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Effective on 12/08/2004 Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). <h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2005</h2>		<b>Complete if Known</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	10/603,132
		Filing Date	June 24, 2003
		First Named Inventor	JAMES L. MCNAUGHTON
		Examiner Name	Arthur L. Corbin
		Art Unit	1761
<b>TOTAL AMOUNT OF PAYMENT</b> (\$) <b>\$180.00</b>		Attorney Docket No.	SU-7273

**METHOD OF PAYMENT** (check all that apply)
☐ Check    ☐ Credit Card    ☐ Money Order    ☐ None    ☐ Other (please identify): \_\_\_\_\_

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For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

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**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid(\$)
	Fee (\$)	<u>Small Entity</u> Fee (\$)	Fee (\$)	<u>Small Entity</u> Fee (\$)	Fee (\$)	<u>Small Entity</u> Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	<u>Small Entity</u> Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u> <u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
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 - 20 or HP = \_\_\_\_\_ x \$50.00 = \$0.00

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims - 3 or HP = \_\_\_\_\_ x \$200.00 = \$0.00

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**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listing under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof.

See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

<u>Total Sheets</u>	<u>Extra Sheets</u>	<u>Number of each additional 50 or fraction thereof</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
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 - 100 = 0 / 50 0 (round up to a whole) x \$250.00 = \$0.00
**4. OTHER FEE(S)**

Non-English specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Information Disclosure Statement**\$180.00****SUBMITTED BY**

Signature	Registration No. (Attorney/Agent)	48,227	Telephone	225-388-8191
Name (Print/Type)	JEREMY J. KLIEBERT			Date
				June 2, 2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08A (07-05)

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<b>Substitute for form 1449/PTO</b> <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/603,132		
		Filing Date	June 24, 2003		
		First Named Inventor	James L. McNaughton		
		Group Art Unit	1761		
		Examiner Name	Arthur L. Corbin		
Sheet	1	of	6	Attorney Docket Number	SU-7273

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	US-254	US-2184888	12-26-1939	Muskat et al.	
	US-255	US-2580808	01-01-1952	Marks et al.	
	US-256	US-2913460	11-17-1959	Brown et al.	
	US-257	US-2929816	03-22-1960	Chamberlain	
	US-258	US-3147254	09-01-1964	Paterson	
	US-259	US-3222276	12-07-1965	Belohlav et al.	
	US-260	US-4770198	09-13-1988	Bergman	
	US-261	US-5209934	05-11-1993	Egis, et al.	
	US-262	US-5429723	07-04-1995	Atkinson	
	US-263	US-5641520	06-24-1997	Howarth et al.	
	US-264	US-5662940	09-02-1997	Hight et al.	
	US-265	US-5688515	11-18-1997	Kuechler, et al.	
	US-266	US-6069142	05-30-2000	Gaffney, et al.	
	US-267	US-6352725 B1	03-05-2002	Torres et al.	
	US-268	US-6379633 B1	04-30-2002	Garlick	
	US-269	US-6379685 B1	04-30-2002	Richter	
	US-270	US-6423267 B1	07-23-2002	Yang et al.	
	US-271	US-6436444 B1	08-20-2002	Richter	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	FP-43	CN- 1432279	07-30-2003	China Nat. Petroleum Corp.	Abstract Only	
	FP-44	EP- 1080641 A2	03-07-2001	Nalco Chemical Co.		
	FP-45	GB- 644	09-22-1910	Peter		
	FP-46	GB- 1358617	07-03-1974	Alsace Mines Potasse		
	FP-47	RU- 277157	07-22-1970	Scientific Research		

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		Group Art Unit	1761		
		Examiner Name	Arthur L. Corbin		
Sheet	2	of	6	Attorney Docket Number	SU-7273

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		Number-Kind Code <sup>2</sup> (if known)			
	US-272	US-6652889 B2	11-25-2003	Moore et al.	
	US-273	US-6908636 B2	06-21-2005	Howarth	
	US-274	US-6986910 B2	07-17-2006	Howarth	
	US-275	US-2002/0192110 A1	12-19-2002	Garlick	
	US-276	US-2003/0077365 A1	04-23-2003	Howarth	
	US-277	US-2003/0100254 A1	05-29-2003	Iwai	
	US-278	US-2003/0102271 A1	06-05-2003	Howarth et al.	
	US-279	US-2003/0113402 A1	06-19-2003	Howarth et al.	
	US-280	US-2004/0010024 A1	01-15-2004	Howarth	
	US-281	US-2004/0039353 A1	02-26-2004	Koenig et al.	
	US-282	US-2004/0166136 A1	08-26-2004	Morelli et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	FP-48	WO- 93/04987 A1	03-18-1993	Monsanto Co.		
	FP-49	WO- 96/14092 A1	05-17-1996	W.R. Grace & Co.		
	FP-50	WO- 96/30562 A1	10-03-1996	Electrocatalytic, Inc.		
	FP-51	WO- 97/33567 A1	09-18-1997	Tri Link Unlimited Ltd.		
	FP-52	WO- 97/43215 A1	11-20-1997	Bio Lab, Inc.		
	FP-53	WO- 01/35745 A1	05-25-2001	Albemarle Corporation		
	FP-54	WO- 01/52656 A2	07-26-2001	Albemarle Corporation		
	FP-55	WO-01/53215 A1	07-26-2001	Albemarle Corporation		
	FP-56	WO- 02/062141 A1	08-15-2002	Albemarle Corporation		
	FP-57	WO 03/011033 A1	02-13-2003	Solution Biosciences, Inc.		
	FP-58	WO 04/57966 A1	07-15-2004	Solution Biosciences Inc.		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	10/603,132
		Filing Date	June 24, 2003
		First Named Inventor	James L. McNaughton
		Art Unit	1761
		Examiner Name	Arthur L. Corbin
		Attorney Docket Number	SU-7273
Sheet	3	of	6

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	L-131	Affidavit of Shunong Yang, William F. McCoy and Anthony W. Dallmier Under 37 C.F.R. §1.13; presumably made public on Sept. 11, 2001, 13-pages. This Affidavit is contained in the File Wrapper of US Application No. 09/518,435 now US 6,287,473, issued Sept. 11, 2001.	
	L-132	Beihoffer, Jon et al., "Identification and Determination of the Isomeric Bromo-and/or Chloro-Substituted 1,3-Dihalo-5,5-Dimethylhydantoins Used in Disinfectants and Molluscicides", Journal of AOAC International, Vol 79, No. 4, 1996, pgs 823-828.	
	L-133	Bromicide Microbiocide, A Safer Approach to Water Management, Great Lakes Chemical Corporation Brochure, 1993, 3 pgs	
	L-134	Büchner, W., et al., Industrial Inorganic Chemistry, p. 180 (1989)	
	L-135	Chemical Engineers Handbook, John H. Perry editor, Fourth Edition, McGraw-Hill Book Company, 1963, pgs 8-59 - 8-64	
	L-136	Cotton, F.A., et al., Advanced Inorganic Chemistry, Sixth Edition, p. 566 (1999)	
	L-137	Frost, A.A., et al., Kinetics and Mechanism: A Study of Homogeneous Chemical Reactions, p. 23 (1953)	
	L-138	Goncharuk, E.I., et al., "Toxicological-Hygienic Evaluation of a New Bactericidal Preparation, Dibromodimethylhydantoin (**Dibromantine**) used for Water Disinfection in Swimming Pools", Gig. Sanit. (1971), 36(5), ppg 96-99.	X
	L-139	Harp, Daniel L., Current Technology of Chlorine Analysis for Water and Wastewater, Technical Info Series, Booklet No. 17, 2002, 34 pgs.	
	L-140	Kristoffersen, T. and I.A. Gould, "Effect of Sodium Bromide on the Bactericidal Effectiveness of Hypochlorite Sanitizers of High Alkalinity," Journal of Dairy Science (1958) 41: 950-955.	
	L-141	Kruse, C.W., et al., "Halogen Action on Bacteria, Viruses, and Protozoa," in Proc. Natl. Specialty Conference on Disinfection, pp113-136 (New York, NY: ASCE, 1970).	
	L-142	Krycer et al., "An Evaluation of Tablet Binding Agents Part II. Pressure Binders", Powder Technology, 1983, Vol. 34, ppg. 53-56.	
	L-143	Kuechler, T.C., "A Towerbrom® Progress Report, (McLean, VA: Association of Water Technologies, 1993), ppg 1-15.	
	L-144	Kuechler, T.C., et al., "Development of Monsanto's Towerbrom® Microbiocide, a New Bromine Microbiocide for Recirculating Water Systems," (McLean, VA: Association of Water Technologies, 1991), 1991 AWT Conference, pg 1-23	
	L-145	Larson, D.S. et al., "Improved Microbiological Control Using Halogen Donors in a Pasteurizer," MBAA Technical Quarterly (1993) 30: 173-178.	
	L-146	Legionellosis: Guidelines for Control of Legionnaires' Disease," (Melbourne, Australia: Health Department Victoria, 1989, (reprinted in 1999), 9 pages.	
Examiner Signature			Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet	4	of	6

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	L-147	"Legionellosis Guideline: Best Practices for Control of Legionella," (Houston, TX: Cooling Tower Institute, February 2000), 8 pages.	
	L-148	Lewin, M. and M. Avarahami, "The Decomposition of Hypochlorite-Hypobromite Mixtures in the pH Range 7-10," Journal of the American Chemical Society," (1955) 77: 4491-4498.	
	L-149	Ludyanskiy, M.L. and F.J. Himpler, "The Effect of Halogenated Hydantoins on Biofilms," paper 405 (Corrosion 97, Houston, TX: NACE International, 1997), ppg 405/1 - 405/11.	
	L-150	MaCalady et al., "Sunlight-Induced Bromate Formation in Chlorinated Seawater", Science, 1977, vol. 195, ppg 1335-1337.	
	L-151	McCall, E., J.E. Stout, V.L. Yu, and R. Vidic, "Efficacy of Biocides against Biofilm-Associated Legionella in a Model System," paper IWC 99-19 (Pittsburgh, PA: Engineers' Society of Western Pennsylvania, 1999), 7 pages.	
	L-152	McCarthy, J.A., "Bromide & Chlorine Dioxide As Water Disinfectants"; Journal of the New England Water Works Association (1944) 58: 55-68.	
	L-153	McCoy, W.F., et al., "Strategies Used in Nature for Microbial Fouling Control: Application for Industrial Water Treatment," paper 520 (Houston, TX: NACE International, 1998).	
	L-154	McNamee, L., "Efficacy of Hypochlorite vs. Hypobromite in the Removal of a <i>Pseudomonas aeruginosa</i> Biofilm," summer intern report (Bozeman, MT: Montana State University, Center for Biofilm Engineering, 2000). ppg 1-23.	
	L-155	Merck Index, 10 <sup>th</sup> Edition, pg 7581	
	L-156	Miki, W., K. Kon-ya, and S. Mizobuchi, "Biofouling and Marine Biotechnology: New Antifoulants from Marine Invertebrates," Journal of Marine Biotechnology (1996) 4: 117-120.	
	L-157	Mills, J.F., "Interhalogens and Halogen Mixtures as Disinfectants," in Disinfection-Water and Wastewater, J.D. Johnson, ed., pp 113-143 (Ann Arbor, MI: Ann Arbor Science, 1975).	
	L-158	"Minimizing the Risk of Legionellosis Associated with Building Water Systems," ASHRAE Guideline 12-2000 (Atlanta, GA: ASHRAE, 2000), 19 pages.	
	L-159	Moore, R.M., et al., "Use of a New Bromine-based Biocide in a Medium-Size Cooling Tower," paper IWC-97-51 (Pittsburgh, PA: Engineers' Society of Western Pennsylvania, 1997), 6 pages.	
	L-160	Moore, R.M., W.C. Lotz, and V.R. Perry, "Activated Sodium Bromide-Artificial Marsh Treatment: A Successful Plant-Wide Program," paper IWC-95-61 (Pittsburgh, PA: Engineers' Society of Western Pennsylvania, 1995). 12 pgs.	
	L-161	Nalepa, C.J., J.N. Howarth, and R.M. Moore, "A New Single-Feed Liquid Bromine Biocide for Treatment of Cooling Water," Presented at the AWT 1999 Annual Conference, (McLean, VA: Association of Water Technologies, 1999), 17 pages.	
	L-162	Nalepa, C.J., H. Ceri, and C.A. Stremick, "A Novel Technique for Evaluating the Activity of Biocides Against Biofilm Bacteria," paper 00347 (Corrosion 2000, Houston, TX: NACE International, 2000), ppg 00347/1 - 00347/19.	
Examiner Signature			Date Considered

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		First Named Inventor	James L. McNaughton		
		Art Unit	1761		
		Examiner Name	Arthur L. Corbin		
Sheet	5	of	6	Attorney Docket Number	SU-7273

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	L-163	Nalepa, C.J., et al., "Case Study: Minimization of Corrosion Using Activated Sodium Bromide in a Medium-Size Cooling Tower," paper 485 (Corrosion 96 NACE International Annual Conference and Exposition, Houston, TX: Nace International, 1996), 485/1 - 485/485/12.	
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	Application Number	10/603,132
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	First Named Inventor	James L. McNaughton
	Group Art Unit	1761
	Examiner Name	Arthur L. Corbin
Sheet 6 of 6	Attorney Docket Number	SU-7273

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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	L-179	Sweeney, P., M. Ludensky, and O. Barokhov, "Mill Performance of a Brominated Methylethylhydantoin Slimicide," pp 437-447, Proceedings of the 1999 TAPPI Papermakers Conference (Norcross, GA:: TAPPI, 1999).	
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